

Title (en)

METHOD OF OPTIMIZING THE EFFICIENCY OF SHIPS WITH BOW AND STERN PROPELLERS AND ARRANGEMENT FOR ADJUSTING THE SPEED OF ROTATION OF THE BOW PROPELLER

Title (de)

VERFAHREN ZUR OPTIMIERUNG DES WIRKUNGSGRADES BEI SCHIFFEN MIT BUG- UND HECKPROPELLER SOWIE ANORDNUNG ZUR EINSTELLUNG DER DREHZAHL DES BUGPROPELLERS

Title (fr)

PROCEDE D'OPTIMISATION DU RENDEMENT DE BATEAUX EQUIPES D'HELICES DE PROUE ET DE POUPE, ET SYSTEME POUR AJUSTER LA VITESSE DE ROTATION DE L'HELICE DE PROUE

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Abstract (en)

[origin: WO9730892A1] The invention concerns a method of optimizing the efficiency of ships with bow and stern propellers and an arrangement for adjusting the speed of rotation of the bow propeller. Ferry boats in particular can have identical drives at the bows and the stern in order to avoid their having to turn when changing their direction of travel. Generally, during travel, the speed of rotation of the front propeller is slower than that of the rear propeller. According to the invention, in order to optimize efficiency, the total of the absorbed active power of the two drive systems is controlled so as to be at a minimum value. An associated arrangement comprises a controller (10) of which the input variables are formed by the active power of the two drive systems, the bow propeller speed of rotation at which the active power total is a minimum being determined in the controller (10).

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